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Title: **JP1316372A2: DIOXANE-BASED LIQUID CRYSTAL SUBSTANCE**  
 Country: **JP Japan**  
 Kind: **A**  
 Inventor: **SUZUKI GIICHI;  
HAGIWARA TAKASHI;  
NUMAZAWA KOICHI;**  
 Assignee: **SHOWA SHELL SEKIYU KK**  
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 Published / Filed: **Dec. 21, 1989 / March 8, 1989**  
 Application Number: **JP1989000053791**  
 IPC Code: **C07D 319/06; C09K 19/34; G02F 1/13;**  
 Priority Number: **March 9, 1988 JP1988000053805**  
 Abstract:

NEW MATERIAL: A dioxane-based liquid crystal substance, expressed by formula I [R1 is 1-20C alkyl, alkoxy, alkyloxycarbonyl or alkylcarbonyloxy; (A) is formula II, III, IV, etc.; X is formula V, VI, etc.; R' is H or methyl; l is 1-6] (B) is formula II, III, etc.; Y is formula V, -O-, -S-, -CH2O-, etc.; R2 is formula VII, etc.; R3 is 1-20C alkyl, aralkyl, etc.; Z is CF3, C2F5, CHF2, etc.; m is 2-20].

EXAMPLE: 4'-(1-Trifluoromethylnonyloxycarbonyl)phenyl (R)-(+)-4-(5-n-benzyl- trans-1,3-dioxan-2-yl)benzoate.


USE: Useful as a liquid crystal component in liquid crystal display, optical shutters, etc., and for application to electrooptical elements, etc.

PREPARATION: For example, ethyl malonate is reacted with a sodium alcoholate, etc., to provide a compound expressed by formula VIII, which is used as a raw material and passed through several steps to afford the compound expressed by formula I.

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Designated Country: **DE FR GB**  
 Family: [Show 8 known family members](#)

Forward References:

PDF	Patent	Pub.Date	Inventor	Assignee	Titl
	US6239316	2001-05-29	Mine; Takakiyo	Mitsubishi Gas Chemical Company Inc	Optically active secondary alcohol and process for the production thereof
			Mine;	Mitsubishi Gas	Anti-ferroelectric liquid cr

	US6133469	2000-10-17	Takakiyo	Chemical Company	compound
	US6103517	2000-08-15	Mine; Takakiyo	Mitsubishi Gas Chemical Company	Process for the production of optically active alcohol and novel optically active alcohol
	US6002042	1999-12-14	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Liquid crystal compound
	US5976409	1999-11-02	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Swallow-tail-shaped liquid crystal compound
	US5968413	1999-10-19	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid crystal compounds
	US5942646	1999-08-24	Mine; Takakiyo	Mitsubishi Gas Chemical Company, Inc.	Optically active alcohol and process for the production thereof
	US5723069	1998-03-03	Mineta; Hiroshi	Mitsubishi Gas Chemical Company, Inc.	Anti-ferroelectric liquid crystal compound and anti-ferroelectric liquid crystal composition
	US5330678	1994-07-19	Okabe; Nobuhiro	Showa Shell Sekiyu Kabushiki Kaisha	Liquid crystal compound

Other Abstract Info:

CHEMABS 112(08)067359Y DERABS C89-265604

